

ABSTRACT OF THE DISCLOSURE

A system and method for guaranteeing an upper bound on output jitter while maintaining maximum loop bandwidth. At least a portion of a plurality of transport
5 packets stored in a buffer include a first timestamp value. A first phase locked loop receives a stream of first timestamp values and generates a variable rate timing signal stream that conveys a variation rate and a phase accumulation rate of the stream of first
timestamp values to the first loop. A second phase locked loop receives the variable
rate timing signal stream and generates a stable rate timing signal stream conveying the
10 average rate of the variable rate timing signal stream. A interval timer is responsive to the stable rate timing signal stream in order to release the transport packets from the
buffer.